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Fig. 1.—Skellton taken from the Rook on Househeavent, published by the Marquis of Newcastle in 1658.

HINTS ON HORSES

HOW TO JUDGE THEM, BUY THEM, RIDE THEM, DRIVE THEM, AND DEPICT THEM

CAPTAIN C M GONNE RA

WITH HILLISTRATIONS

LONDON JOHN MURRAY, ALBEMARLE STREET 1913 PRINTED BY

INTRODUCTOR

"What are the points of a horse?" "What are the things to look for; and what are the things to avoid?" "How am I to tell a good horse when I see one?"

put to me, on the one hand by persons who, without much experience, are anxious to buy a horse, and have to depend upon their own limited knowledge to asfeguard them, and on the other hand by artists and amateurs, whose attempts to introduce horses into their pictures have not always been attended with success.

The title of this book will, I hope, acquit me, in the eyes of the public, of anything more ambitious than a desire to offer a few suggestions on this subject: it makes no pretence to deal with it exhaustively, and those who desire further information must be

referred to more comprehensive works; but to the best of my knowledge there is no book which makes any attempt to occupy the ground that I shall now endeavour to cover in the simplest manner possible, partly by words and partly by diagrams, which I find far better calculated to leave a definite impression on the mind that how descriptions.

These hints are the result of many years o personal animacy with the horse, and of careful observation of his proportions, his movements and his habits, and I hope that what ha proved of use to me may, in turn, be found to the province of the control of the con

In conclusion, I have added a few notes on Riding, Driving, and on Harness, which I trust will not be found out of place.

C. M. GONNE.

Seftender, 1904

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HINTS ON HORSES

First and foremost, for a thorough knowledge of the horae, I must emphasize the importance of personal acquaintance with the animal himself, and a careful study of his anatomy (Fig. 1) By considering the proportions of a horse it is possible to detect his age, to gauge his strength or weakness, and to obtain some insight into his individuality and characteriatics. And to understand his proportions it

Roughly speaking, the body and legs of a horse, when seen standing in profile, may be drawn within the four lines of a square, which should practically include his whole body, with exception of his head, neck, and tail. The height of a horse is equal to the extreme length of his body (Figs. 2 and t). Draw a square, ABCD, and within it roughly sketch the body and legs so that the feet stand upon the base line, whilst the withers and highest point of the quarters touch the top line; in a well-formed horse the chest and toes of the fore feet should extend to one of the vertical lines, and the back tenden of the hind leg must coincide with the

From the root of the tail draw a perpen dicular line upwards to cut AB at X.

Continue the general line of the foreleg

of his poll to the tip of his lips, is almost in variably one-third of the distance measures from the poll between the ears to the root o the tail.

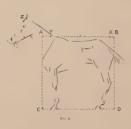
of the horse's head.

From Y draw YZ = \frac{1}{2} XY at the angle at which you wish the horse to carry his neck.

Z will be the roll of the horse.

From Z indicate the horse's head, making its extreme length = $YZ = \frac{1}{6} ZX$.





of a horse by means of the square, it can be utilized with advantage for drawing pur poses.

After drawing the complete outline of the horse, superimpose on it a thin piece of paper, and over the outline which shows through it indicate the salient points and as much more of the horse as is required.

The method is very simple, as may be found by personal experiment.

Tur Hear

The heads of horses vary greatly.

An English thoroughbred has senerally a long lean head (Fig.



An Arab (Fig. 5) has a muzzle so fine that he can drink out of a cup. At the same tim his head, through the jaw and cheek, is ver

An underbred horse's head is vulgarly described as a portmanteau (Fig. 6).





Nose.—The nose differs in character as much in horses as in human beings; some horses have Roman noses (Fig. 7), others have an indentation on the bridge of the nose (Fig. 8).





....

Ears.—A horse has much power of expression in his ears, which should not be too small

cocked they denote attention and keenness, when laid back they may mean vice, and foreshadow a bite or a kick (Fig. 9).



....

Eye.—The position of the eye varies a good deal. Roughly speaking, from the poll to the eye is one-third the length of the head. The hollow above the eye deepens with age. A large full eye is expressive of honesty and courage, whereas a small eye may denote

conning. Showing the white of the eye ex-

White Mclville wrote that if he had only one portion of a horse to look at before purchase, he would select the eye.



F10. 10.

Mouth.—Mouths have many forms. In a young horse the lips are short. A well-broken horse with a light mouth retains the short lips; whereas pullers, and horses gagged with bit and bearing-rein, acquire long, sittup mouths. This form of mouth is generally associated with muscular develop-

manes and tails. Under-bred horses have coarse, bushy, or curly manes and tails. Meh.—The upper outline of the neck shows condition, and varies from convex to cencave. Stallions have convex crest lines. Celdings have straight necks, unless they have been stallions for a few years, in which case they retails the curved crest. A mare's neck is generally straight, but rounds up when at grans. The above remarks refer to a horse carrying its head naturally, without are briefline.



When the outline of the under surface of the neck is convex, the horse is said to be ewe-necked (Fig. 11).



Ewe-necked horses are often straight-shouldered; they are often also star-gazers (Fig. 12).

Tur Bony

carefully noted; they vary from almost a razor edge to quite a rounded surface: their position is also of importance; this depends upon the shoulder. Shoulder.—The most important line whereby

Shoulder.—The most important line whereby the individuality of a horse is depicted is that of the shoulder.

This line may be oblique or upright. If oblique the neck is long, the withers lie back, and the back is short. If upright these proportions are reversed. A head placed on a long

neck looks relatively shorter than a head of

A lean, clean cut, and angular shoulder is desirable for a riding horse. A rounded, heavy-looking shoulder, on the other hand, is

Back.—The length of the back is dependent on the position of wither and size of hindquarters. The shorter the back the stronger. The larger the hindquarters the



In weak or old horses the back is often hollow. Some horses are naturally hollow-backed (Fig. 13).

In cortain cases the back assumes a convex form known as "reach-backed" (Fig. 1.)



It has been said that Araba are quick to notice the manner in which a horse stands when grazing on level ground. The pure bred can feed with his fore legs perfectly upright (Fig. 15): the horse that has some slight with in his pedigree shows it by slightly bending one of his fore legs whilst feeding off the ground; and the curly maned, curly tailed underbred has to kneel to get his food (Fig. 16). This observation shows that the Arabs appreciated the beauty of a long rein and a short back.





Hindquarters.—A horse's hindquarters may be about the same height as his wither, in which case the hind leg is long and therefore

Long quarters with thighs well let down into the hocks denote speed.

muscle or fat. This is of importance in hunters and racchorses. Hunters are usually grosser than racchorses. Some run fat, others are trained fine. This training is apparent in the haunches and buttocks.

A clear-cut indentation between the haunches and buttocks is called the "poverty line." This line is very noticeable in underfed

Drooping hindquarters are described as "goose-rumped." This formation is often

Charles Kingsley showed his appreciation

of the points of a horse in the following admirable passage in "Hereward the Wake":-

"The ugliest, as well as the soffers of marre, the was, soy the old chroniclers; and marre, the was, soy the old chroniclers; and it was not till the stranger had looked veice at her, that he fought be chackle-lead, grzyhound flasts, and drooping himforurers, and began to see the great length of those same quarters, the thighs let down into the hole, the compact loss, the extraordings shoulder, the through the saddle, the sloping shoulder, the long arms, the fills knews, the large veiluse hoofs, and all the other points which showed the attention of the strength of the strength and the strength and cased and invisited the

"'She might carry a big man like you through the mud,' said he, carelessly; 'but as for pace, one cannot expect that with such a chuckle-head. And if one rode her through a town the bows would call after one.

"" All head and no tail. Why, I can't see her tail for her croup is so ill set on I """ (Fig. 17)



Tails (Fig. 18) - When the tail is carried high it denotes life, and is said to be "well put on."



A tail tucked in gives a mean annearance.

Hunters generally have short tails, so as to increase the full appearance of their quarters. Racehorses, on the other hand, have long tails, which suit their long, well-let-down thighs and hocks. A thoroughbred in the

Arabs often curl their tails right over their backs.

Some horses have no hair on their tails

These are known as "rat tails," and there is a saying that there is never a bad horse with

Horses which have their tails docked an trimmed, so as to give a triangular appearance are known as "fan tail."

Some horses have their tails trimmed as as to terminate in a horizontal line.

A horse with an untrimmed tail, is said to have a "swish tail." Inign.—I ne thigh denotes muscular con lition.

Hocks.--A greyhound's hock is ideal for

maximum speed. The greater the leverage the greater the speed (Fig. 19).

If the hock is exaggeratedly bent, it is called "sickle hock."



In a sound horse the rear outline of the hind leg, exactly in profile, from point of hock to fetlock should be a straight line (Fig. 20).

A lump on the point of the hock indicates a habit of kicking in the stable. A joint with such a lump is called a "capped hock" (a).

A similar lump on the elbow is termed "capped elbow" (c). A lump lower down, where the back tendon commences, indicates curb (b), a source of weakness in jumping horses. It is a result sometimes of too much jumping on the part of the horse before he is strong enough. Many Irish horses are just touched with the firing-iron on the seat of curb.

denotes a broken-down leg, known as the "bowed tendon" (c).

ground than the fore fetlocks.

Around the fetlock, lumps are often only

signs of work, and not unsoundness. Thes are called "wind galls" (d).

If the letlock itself is swollen, it is often described as "puffy," and this may indicate unsoundness.



distance from the withers to the elbow is equal to the distance from the elbow to the centre of the fetlock.

In young horses the elbow is nearer to the withers than to the fetlock.

This fact enables one to depict youthfulness

This fact enables one to depict youthfulness in young stock, and it also enables purchasers of polo ponies, racing galloways, show harness horses, etc., etc, to form a very good idea whether young animals, submitted for their approval, will eventually grow too tal for their particular job

fetlock.

The position of this joint depends on the

The position of this joint depends on the angle of the feet, and the springiness or

Mr. Iorrocks says, "No foot no hoss,"



Fret and hoof.—A good hoof slopes at about an angle of 45°, hind feet are rather more upright than fore feet (Fig. 21).

If the hoof is too upright, its appearance resembles that of a donkey.

If too flat it is indicative of malformation

Underbred carthorses often have this fla foot, so also do some heavy carriage horses. "frog," is pared away during the operation

of shoeing, a fatal fault of the farrier, the shoe will become more and more nearly a

high up that the frog is no longer able to touch the ground, and a similar result, to

not to shoe the animal at all: then the from is always on the ground, and the horn of the foot wears away naturally. Heavy horses

in heavy countries; but, on the other hand,

Pasterns -The pastern may be oblique or Wellbred horses have oblique pasterns.

and their action is rough and inclined to jar. An oblique pastern carried to extremes denotes weakness, as in young underfed

affect the soundness of the action of the horse. The upper portion is liable to little

stable too long often comes out with big fetlocks, but after a little exercise the joint

often rather swollen about the fetlocks: in

its case also exercise reduces the swellings. Canon hone or shank - A horse's canon hone

(the bone below the knee) should be like a

when seen in profile. It is a quality for a horse to be what is called "big in the bone," in other words big below the knee, but this bigness should be a chound described.

have experienced this difference between the bone of the leg of a Barbary horse and one from Flanders, viz. that the cavity of the bone in one shall hardly admit of a straw, whilst you may thrust your finger into that of the

their bone is often compared to ivory. If thorse's canon bone is small, it is often de scribed as being "tied in below the knee (Fig. 20. f). This is a source of weakness.

Back insists.—Behind the canon bone is the back endom, which forms part of the posterior cuiline of the leg when seen in profile. About halfway down the shark the suspensory ligament shows itself, like a taut card supporting the fetchek. In perfectly sound fresh hores these tendons and ligaments show up very sharply, and eath the eye. In sunshine the shadows they cast make regular except.

Any bulges or swellings on these denote unsoundness.

Kness and forestrate—Having placed the feltoke and the withers, we can now place the elbow, if for a full-grown horse, halfway between the two. From the elbow to the knee is the forestran. This shows muscular development, and its condition indicates the condition of the horse. To place the knee we must take into consideration the character of the horse. The lower the knee is placed the greater the capacity for speed. As an example study the greyhound.

arm, and the shorter the shank. A term approval is "short canons," or short belo the knee.

The kace should be large and flat. The clows sometimes has a lump similar to a "capped hock." This is termed "capped show "(Fig. 2a, 4). It is generally due to a horse, when lying down, resting his elbow on the heel of his shoe, thus showing that the shoe wasts shortening. If this shortening is overdone the end of the shoe, which must always take the horse's weight, will press shays take the horse's weight, will press into the foot when he is standing, and will cause a corn to develop.

on their feet so as to keep their chests awa from the damp ground, and in consequenc suffer from capped elbow.

ONT VIEW

Regarding the horse from the front, width means strength (Fig. 22): narrowses, speed (Fig. 23): A thoroughbred weed is sometimes, described as baving host for less growing out of the same hole. Such a cone may be very speedy for a abort distance, but is not a stayer. A horse to stay must have room for his lungs. The room obtained perpendially in the stay of the same proposed of the same hole. Such as the same stay of the same proposed to the same

Horses' legs should be perpendicular.

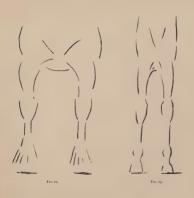
Knock-kneed horses are called "calf kneed."

Many horses turn their toes out more or

less. This is a source of weakness, because the foot in the air, moving forward, is apt to hit the fetlock of the other foot when on the ground. To remedy this the inside of the shoe should be made thicker than the outside, causing the horse to stand on the outside edge of his foot, thereby forcing the fetlock more

some norses turn their toes in, a stron ut ugly formation.

Care should be taken to draw the pasterns clean. Any swellings of the outline would indicate soulfeations known as "ring book," have been a substantial of the pastern of t

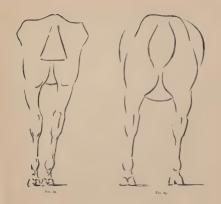


. ..

Seen from behind, some horses are very wide between the hips. The hips are "ragged" looking (Fig. 24). These horses generally stand with their feet close together.

They are often slack in the loins. Some horses are wider through the barrel than between the hips. They generally stand with their feet wide apart, and may generally be counted upon for "good doers" (Fig. 25).

The remarks on ring bones, splints, etc., apply equally to the hind leg, but splints are much more common on the fore leg than on the hind. In drawing the outlines of the hocks, care must be taken to make them a pair. If there are substantes of them pair. If there are substantes of them pair of bumps on the other hocks, then the chance are that the other hock, then the chance are that the horre is "paysined." If, however, both hocks when looked aff from a similar angle are identical in outline, it is possible that the animal if nor quite clean may be only what is termed "coarse hocked." If the hocks are cleaned to the contract of a pair, the coarse hocked." If the hocks are



Mouranne

The movements of a horse cannot be better described than by the words of the Marquis of Newcastle, who, in his book on "Horsemanshin" written in 1668 save—

"I. A horse, in walking, has two of his feet in the air, and two upon the ground, which move otherways at the same time, one fore and one hind foot, which is the movement of

"2. The rot.—The action of his legs is this movement is two feet in the air, and two upon the ground, which he moves crossway as the team time, and the same time; one fore and hind foot across, which is the movement of the walk; for the movement of an expensive legs in the same in walking as in trotting, where he moves them convented of a horsel, legs is the same in walking as in trotting, where he moves them crossways, two in the air across, and two upon the ground, across in the air at one time, are afterwords in the same afunction of the control and to one word. This is desirable to the control of the proper the ground, and to one word. This is a control of the proper the ground, and to one word. This is a control of the proper the ground, and to one word. This is a control of the proper the ground, and to one word.

"3. The anblo—A horse in this action moves both legs on the same side; for example, the moves his two of off-get both before and behind at the same time, while those of the move his two off-get both before such the more side are at a stand; and when those two which were in motion before touch the ground, he moves the other side, viz. Its fore and him leg on the near side, and the off geyand; the moves the other side, viz. The first and his leg on the near side, and then gives a standard to the same side in the air, and those of the other side upon the ground at the same time, which side upon the ground at the same time, which

movement; for in this pace a horse can lead with which leg the rider pleases, but the leg on the same side must follow it; I mean when he gallops directly forward, and then this is a true gallop. But that the leading of the fore leg may be rightly understood, which ought to be followed by the hind leg at the same side, the leg moves in the following

† It is obvious that the Duke of Newcastle uses the words "gallop" and "run" in a sense different from that of modern use, and that his "gallop" corresponds to our

coap. In vot a p. 30.

manner: for example, if the fore off leg leads, it consequently follows by such leading, that the same fore leg ought to be before the other fore leg, and the hind leg on the same side ought to follow, which hind leg ought to be before the other hind leg, which is the right rallon.

"But in order to understand it the better, one leg before the other, they are immeas I have said before, they are all in the nir at the same time; for his hind less herin to move when the fore legs begin to fall, by which the whole horse is entirely in the air. How would it otherwise be possible, that a horse in running should gallop was not a leap forwards? This degalloping, which, though it be true, is not visible in a swift one, where the motion is

violent: I say, his four legs may then plainly appear to be in the air at the same time, running being no more than a quick gallop, the motion and posture of a horse's legs being entirely the same. It is, however, necessary to observe, that a horse in a circular gallop ought to lead with his two legs within the volte, viz. his fore leg and hind leg within the circle.

"5. Romonigo—The motion of a horse and the action of his legs are the same in running as in galloping, the different velocity of the motion only excepted, so that running may be proverly called a sorth gallog, and a gallop to the province of the control of the control gallog; and the reason is, because the run being cross-ways, and a gallop hold legs on the same side, if you put a horse upon a run being cross-ways, and a gallop hold high on the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side, if you put a horse upon a run the same side in the same side in the same side, which is a real gallog, and for this side, which is a real gallog, and for this four legs of a galloping horse are off the ground at the same time.

Instantaneous photography, on the other

horse is always on the ground except when jumping (Fig. 27).







It is very doubtful whether instantaneous photography conveys the impression of motion. It adds greatly to our knowledge, and in the case of jumping horses gives an excellent idea; but, in my opinion, the feeling of speed in a galloping horse is scarcely conveyed by photography (Fig. 28).





In all probability the conventional position (Fig. 29) of the leaden horses in the race game conveys to the mind the better impression of speed. At a walk, trot, canter, or gallop horses move their feet in the following order, viz. near fore, near hind, off fore, off hind.



At an amble or triple they move like a camel, viz. near fore followed by near hind, off fore followed by off hind (Fig. 30).

A borte places his hind feet almost exactly, one on the feotprints of his fore feet. If going laxily, the hind feet do not reach to the fore-foot prints (Fig. 31): if over-searing hinself, he generally goes wide behind, and places his hind feet beyond and coutside the fore-foot prints. If walking, a horser has not got up much imputes, and each pose is coly about half his length. As he increases that the control of the cont

At this pace his fore feet extend to a point perpendicularly below his nose, but they do

fore feet out beyond this line.

(Fig. 33). A borse is made to canter with sometimes one leg leading and sometimes to other. On a circle the horse is made to lead with the inside leg. The head is meanwhile drawn to the outer leg, and the horse is urged with the outer leg.



FIG. 31.—A SLOW WALK.—Colonial Boys coing to School.



Peculiarities of movement. — Some horses in motion "braid," that is, cross their fore-

Some "dish," that is, throw their fore feet outwards. Some "brush," that is, strike their fetlocks, as already described.



Some "speedy out," ic strike themselves just below the knee (Fig. 33).

Some "forge," that is, strike the toe of the hind foot with the inside of the shoe of the very tired trot. It is therefore useful to remember this when depicting a tired horse.

On the other hand, he speedily cuts when



Some "over-reach," in tread on the heel of the fore foot, with the toe of the hind foot

The consideration of these peculiarities help a draughtsman to depict an animal in motion, since each of these movements is peculiar to some particular pace, and results in injury only when the animal over-carets himself, e.g. a horse brushes at a walk or

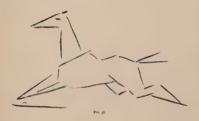
fresh and when trotting high and fast. He forges in his trot generally from weakness, or when in harness the weight behind him is too great.

A horse over-reaches in heavy ground or then jumping, especially bank jumping.

If we draw the legs so as just not to strike each other, then we shall produce the imThe lines of a horse in motion usually follow curves (Fig. 35).



PIG. 35. PLACE A COIN ON A THESE OF PAPER AND MARK A CONVENTIONAL TROTTER,



and though there are some horses which are angular at all times in their movements,

this rule may be considered generally to hold good (Fig. 36).

The effect of motion depends to a certain certain on the manner in which surround in which surround coljects are indicated. In watching a horse in monitors the eyes are usually focused on monitors the eyes are usually focused on the horse, and the surrounding objects to rank past him. The quicker the motion of the horse, the more indicative they have a first the past him. The quicker the motion of the horse, the more indicative they have the hadge of the horse, the more indicative they have the hadge of the heading that the hadge of the hadge of

In drawing a galloping horse, if the lines representing the grass are drawn more horizontally than vertically, in a direction pointing in the opposite way from which the horse is going, and in sweeping strokes, they will help the horse to go. If, however, a few perpendicular blades of grass are introduced in front of the horse, the animal will appear to be trying to stone short or "gran;"

the direction of the movements desired. To suggest some quiet movement of one leg only, such leg would appear slightly indistinct; e.g. a horse, impatient for food, pawing; a horse lifting a hind leg whilst being grouped.



Terms of appreciation include-

Long in the rein.

Muscular forearm.
Short below the knee, etc., etc.

short back.

ail well set on.

ocks well let de

"Stands over a lot of ground," etc., etc.

Terms of depreciation include-

Ewe neck. Straight in Slack loins

Slab sides.

Long on the legs, etc., etc.

To give an impression of the good points, and to eliminate the bad points, is the aim of the dealer, and also of the artist, if he wishes

A well-formed horse naturally stands over a lot of ground. If not so well formed, he is made to stand so as to give a good imperation of the stand so as to give a good imperation of the stand so as to give a good imperation of the stand so that the stand since forcing the head back with the bridde, the object being to give the shoulder the best appearance possible. Appearantly the angle parently the angle that a horse's foreign made with his shoulder is parentally the same all all horses, consequently a horse with an abbitop shoulder stands with appearance with a behavior shoulder stands with appearance with an abbit parent shoulder stands with appearance with an abbit parent shoulder stands with appearance shoulder stands with appearance must stock the foreign backwards.

If this is so, to balance property, the horse must advance his hind legs. As a result the ground covered by a straight-shouldered horse is small. A well-formed horse will easily learn to stand well. Not so a badly shaped one. The latter soon forgets his lessons, and, when the breaker is no longer with him, some people employ the gag and bearing rein. When a horse unnaturally stands over a lot of ground a deciency must of needs show itself, and the stack-loined appearance of these straddled-out horses is the unpleasant result.

To make a meas-crouped here carry his tal well, a padded crupper is recorded to. The object of disfiguring horses by decking their tails it to give the impression that the entire tails is to give the impression that the entire tails are to the constant of the constant o

Trimming, perhaps, requires a little notice, as by means of it the season of the year may

Trimming is apt to take away from the natural beauty of the animal.

appearance. It must be borne in mind that the head of a horse with a hogged mane looks too big.

Clipping, whole or partial, is resorted to

to prevent the overheating of horses at exercise. Hunters often have the hair left under the saddle as extra protection to the back, and on the legs to minimize the disconfort of thorns, etc. A steeplechase horse is often chipped the same as a hunter, but a thoroughberd flat-racer is rarely clipped, and the extreme beauty of its summer coat is thereby



THE RIDER

old-fashioned straight-leg military seat (Fig. 38)

to the crouched-up position introduced into Europe by the American flat-race jockey. A good rider does not ride more than his own weight. He sits down close to the saddle, and his thighs practically become part of the horse. He sways his body from the loins, conforming to the movements of the horse, so as to keep the centre of gravity of man and horse combined in the most suitable blace.

E.g. in rising at a fence he leans slightly forward. The extra weight forward gives momentum. The relief of weight behind gives full opportunity to the propelling force of the hind-quarters. Whereas in descending to the ground he leans his body back, thereby allowing the forehand to alight without imswing. Compare the positions in jumping over a stone wall and a brook (Figs. 90 and 40). A bad rider, on the other hand, is loose in his seat. He adds to the fatigues of his horse by opposing his weight to the joint requirements of man and beast. He rides more than his own weight.

The steeper the ascent and descent, the

By his loose seat, when rising at a fence, he slips back, and would get left behind, were it not for the reins (Fig. 42). With these he jobs his horse in the mouth. The horse pulls him forward, and in the descent the rider finds himself again exactly wrong. He is no longer being left behind. He now

From this it will be seen that a slip in taking off cannot be recovered, and a stumble, or peck, on landing in all probability results in a fall. Although jumping shows it up especially, the loose seat is in all paces a source of extra weariness and labour to the horse.



F15, 39.







Fron 4

Apart from the manner in which a rider distributes his veight, the method of carrying out a journey on horseback may diminish out and to the futigues of both man and and to the futigues of both man and and to the futigues of both man and the futigues of the futigues of

as the oblique-shouldered horse, who would have to take it easy uphill, and make up for

Some horses can keep up a steady trot the whole time with little fatigue, others prefet to vary their paces. To do the whole journey at a very slow pace is often much more wearisome to man and beast than to go at best pace.

To tighten the girths after starting, without ismounting, often makes the saddle sit more omfortably. To slacken the girths after the orse has had a drink, in a similar manner, dds to the wellbeing of the horse (Fig. 41).



.

The Marquis of Newcastle describes the saddles shown in Fig. 26 as the best. A very similar saddle can be easily made, on which

Place a piece of numnah on the pony's back (Fig. 44). Seat the child thereon. Place the child's leg in the correct position, and with a piece of chalk draw on the numnah (a) a line showing where the upper outline of the child's thigh will be. Then roll up a piece



of blanket, cover it with soft leather or basil, and sew it to the numnah above and exactly following the chalk line (6). The child will derive great benefit from this "knee roll." When the pony stops, instead of sliding forward on to the pony's withers, his thighs will be checked and kept in their proper place, and he will soon learn to grip with his legs

In training a youngster's pony it is often the pony lean your right arm over his loins, thereby forming a cantle as in the Marquis of Newcastle's saddle-hold a rein in each hand, soon find the pony go up to his bit. Now. when you put up the youngster you will find Your right arm will be hugging the child. giving him confidence. With your two hands you will be able to place the child's thighs and grip. You will have the reins, and teach the child to acquire a seat before ever he has

hands. When you wish to trot or canter you can throw your weight on to the pony, and thus keep up easily with him. If anything happens, catch the child in your right arm,

With girls learning to ride on a side such they are at first initiated to "serue" as tre and not trie perpendicularly foun the sadd This servering means some hards, the animal withers being swrang, by the friction of the saddle. Make the thild wear a Norsofat jack basing a pleat down the centre of the back, to always a pleat down the centre of the back, or else sew on a piece of ribbon, while can be castly noticed. The other children, and you craiting behind here, can then easily as any our reling behind here, can then easily as

The shapes of saddles correspond to the lines of a horse's shoulder. The lap cut forward corresponds to the oblique shoulder, and is the really confortable shape (Fig. 45). It gives ample room for the thigh to grip the whole way along (4s). A straight-cut saddle and nu upright shoulder correspond to each other (Fig. 46). The room from the point of the flap to the centle is obviously shorter (4s) and





in consequence reduces the comfort of the seat. Knee rolls are a matter of individual

Laures saddles follow the same principles, and should be cut so that the crutch comes over the centre of the thigh and does not press on the point of the knee. The number of crutches, pommels, etc., are a matter of individual tests.

A saddle-horse with a good shoulder carries the girth well clear of the movements of the elbow. The straighter the shoulder the more forward does the girth sit, the tendency being to cause a gall.

A grass-fed horse often chafes, as the full barrel forces the girth right under the cibow. Hence in Colonial towns horses may be seen with the girths round their necks, like a collar, to prevent the saddle riding back, and a crupper under their tails to prevent its moving forward (Fig. 47). The difficulty is in mounting not to dislodge the saddle. Once up it is easy enough to keep the gear



Bridles vary greatly, from plain snaffles to double bridles, of which there are many varieties. An ordinary "Pelham" bit is a it is practically a snaffle, and with the curb chain a double bridle. It requires less leatherwork than a double bridle, and is possibly the simplest bit for all-round use.

DRIVING.

Amongst coachmen we notice two methods, the one showing the compact position which inspires confidence, and the other the loose method which suggests a great element of

If the wrist of the left or driving hand is kept supple and bent, the back of the hand will be at an angle to the forearm.

The reins follow more or less the line of the forearm. It will be seen that the strength of the back of the hand is added to the strength of the fingers in taking the strain of the horses. Now, if the wrist is unbent, and the forearm and back of the hand form one continuous line, the whole pull comes on the fingers, the reins soon slip, and the feeling

The elbow must be kept to the side, sticking t out will do no good.



The manner in which a horse stretches his learness is, after all, the chief criterion by

In single harness there is not much to note. Should, however, a horse appear coming downhill with tight traces, it may be safely assumed that the pace will keep increasing, and the difficulty of clearing an obstacle at

With a pair, if the horses are equally strong, each horse should do his fair share of the

In breaking a young horse, it will be noticed that the old stager, who is put in to convey his experience to the beginner, does all the work of starting, but as soon as the pupil begins to feel the collar, the old hand gradually hangs back, until eventually his

In sketching a team, note two things, the

In starting, if the leaders stretch their traces first (Fig. 40), they will pull the coach on to the wheelers, who will promptly hang back as if going downhill. The driver will pull on the reiss to stop the leaders; but the leaders' reins being too long, he will still further pull the wheelers back, without, perhaps, ever getting a proper feel of the

The weight on the leaders' shoulders will then become too much for them, and they may jib or rear. In any case, for some time the drive will be thoroughly uncomfortable.



Therefore, if a coachman be depicted start ing his team, the wheelers' traces should b made tight, their reins just loose, the leaders tight on the rein and slack on the trace (Fig. 50). Uphill traces should all be taut.

Downhill the reverse

In a tandem notice the same points,

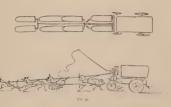
If the team is coming round a corner of

If the team is coming round a corner pace, the whip in the coachman's hand as if ready for immediate use on either wheelers. If the wheelers are cutting the corner too fine, a touch on the inside horse will send him up to the front, and force the point of the pole coutwards. If not coming round sharp enough, a touch on the outside horse will swing the pole inwards.

In coming round a corner the hind wheels

will travel on a smaller circle than the fron wheels, so care must be taken to leave enough road on the inside of the inside front whee for the hind wheel, unless the draughtsmar desires to suggest that the coach is about to foul the corner.

teams of six, eight, or ten mules or horses from the box (Fig. 51). At first it appears as if no man could be strong enough, but if the relations which traces and reins bear to each other be noticed, the solution of the difficulty



In Figure 5: it will be seen that the leaders have taut reins and slack traces, the central pairs the reverse, and that the wheelers an as any ordinary pair. The leaders pull on the driver's hand through the reins, and owing to their seldom being in the collar they keep fresh and act

The central pairs strain after the leaders, but the weight is thrust on the carriage through the traces, and not on the coachman's hand. Consequently he need exert no greater strength in piloting a properly harnessed team

With these big teams a longer and heavier whip than an ordinary four-horse whip is required. A second man, as a rule, sits on the box beside the coachman with the reins. This man is generally possessed of great skill, and keeps all the laggards of the team up to their work.

In drawing a coach, it is quite worth paying attention to the coachman's whip. A wellcaught-up loop looks workmanlike. A hig loop halfway down the stock looks slovenly, and one knows that it will soon come down altogether. A long flying lash, unless the coachman is striking the leaders, is quite absurd. If the wheelers are being touched with the whip, it should be with the double thong of the loop of the whip. There is one stroke in which the professional Jehu strikes all four horses in succession with the single thong in one backward and forward sweeping

The driver catches the thong on the stock of the whip close above his hand, and lets it fall under his thumb. He then with a figure-of-eight movement loops the thong. In windy weather he often catches the thong on his forestern.

He holds the whip-handle near the upper collar, his hand being a few inches up from the butt. This balances the whip in his hand.

Some whips are bent in the stock. This allows the rain to drip off in wet weather without running into the driver's hand. Notice also the indiarubber ring on 'busdrivers' whips for a similar purpose. The harness consists of bridle, collar, traces' pad, and breeching (Fig. 52



'Bus-horses wear bridle, collar, and traces only.



The breeching is often omitted, and rarel seen in light double harness (Fig. 53).

If we place the harness correctly on a piece

of paper, it is very easy with a line or two to suggest the horse. The angle of the collar will give the character of the horse.

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To those wishing to buy a low-priced horse, auctions offer the greatest opportunity. be read right through. Scratch out all unmeaning of your notes. Now study the possible lots, and make marks by which you will readily note any that are partially or able to give your full price, because, if they do within a certain time, specified on the conditions of sale. The unwarranted ones you follow because a lot is termed unwarranted Having thus got your catalogue intelligible

to yourself, and quite handy, get bold of a "ramer," and with him walk right round the stables. Tell him what you want. He will probably be able to tell you of any broves that have a reserve price, or are likely to make mosey. You will then be able history (gyphically to reason when from your likel fit they are certain to be more than your price. It is no good to spari) your cy by booking at hences which are beyond your factor. Doing so will often put you off the useful horses to will often put you off the useful horses.

Your own list has thus been cut down to the possible choices. To this you must be the possible choices. To this you must be an any that your runner suggests to you. Now proceed to look at each here on this final list. If the horse takes your facey, before running, the final list of the thing the first. If they are masty, or should in a suspicious manner, remember "one foot to hose." If the fest saisfay you, proceed to look for blensibles, which signify faulty suction, such as broubling, speedy cutting, ere. If these exist, bear in mind that they can be constructed, but it may be necessary for the constructed, but it may be necessary for the

necessity reduces the value of the steed. his age is suitable. If so, have the horse will find only a few "possibles" left. Run these out again, but do not confine yourself

which the lots will be put up for sale. Your first choice may be the first of the "possibles," in which case you can bid comfortably up to your limit. On the other hand, your pet selection may be low down, and you will have to use your own judgment. The tendency is

pocket expenses as dead loss, and, conseyard from which you bought him. Horses hunting season, and send him up warranted for the sales at the beginning of the next season. The difference in market price should cover your sale expenses, and quite possibly, partially or completely, pay the summer's forage bill.

ETHERING

To teach horses to stand on the veldt, Boers throw the reins over their horses' heads, and allow them to trail on the ground with

The horse is unable to drag this weight and is therefore practically tethered.

By degrees the weight is reduced, and eventually the horse learns to stand still as soon as the reins are thrown over his head.

him, always leaves the roise lying on the saddle. As a result, if the rider wishes to go on foot, with his horse following, he merely jumps off and walks ahead. If, however, he wishes to move away on foot alone, he throws the reins over the horse's head.

For an untrained horse the following method may often be found of service:-

Attach a spring hook to the ring of the bit, the snaffle for choice, otherwise to some convenient portion of the bridle. On dismounting raw the horse's head round towards its flank, and snap the spring-hook on to the stirrup iron.

or a short man on a big horse, the stirrup leather will be found either too long or to short. Under such circumstances an ordinar, chain, or leather dog-lead, attached to a D jus behind the flap of the saddle will meet the case. Thus fastened, the horse cannot stam pede, but the position being very crampet the scheme should only be resorted to durin

To tether groups of horses the Italians have a good way of attaching the head-roper of several horses to a small iron wheel, with about four spokes.

with their heads inwards, consequently if they attempted to proceed in any one direction a certain proportion of them would have to move backwards. Stampeding on mease, therefore, with this method, is practically impossible, and the wheel (unlike the peg) being unattached to the ground, individual horses are unable to get a direct pull against it, with a view to break their head-gear, a trick which many horses acquire, and are in consequence tied up with a thick strap round the neck like a

When thus tethered to a ring, the horses are fed in groups, but without nosebags it is impossible to insure that each horse gets his fair share of grub.

A wheel of about eight inches diameter will hold twelve or thirteen horses. A quoit of about this size, with holes drilled through it, might make a convenient tethering ring. The head ropes would be passed through the holes and then knotted, to prevent the horses

ropes has its advantages in moving a large body of animals across country. The ropes are invaluable for the passage of rivers. If a herd of horses is driven into a river, it is with difficulty that they can be forced to land at any given point. The tendency is for them to scatter, some up, some down stream, and to land at various points on either bank, or, if there be one, on an island.

one end across the stream, and retaining the need arise due to sorting them, etc. The they can be dragged ashore and saved, the

After the passage of the animals, the rope can be rigged as a tight rope for the dry passage of gear. A tethering quoit made in aluminium would compare favourably as regards weight with twelve picketing pega.



THE END











